

2133

Transportation

Library

TF

R16  
V27

## INDEX.

- A**
- Alabama and Tennessee Railroad... 789, 605,  
[622, 404, 101]  
" and Florida Railroad... 829, 397  
" and Mississippi Railroad... 491  
" Railroads in... 764  
" State, Finances of... 547  
" Machine Works in... 121  
Albany and Northern Railroad... 543  
" Price of Wheat at... 568  
Arkansas, Finances of... 773  
" Railroads in... 349  
Adaptation of Locomotives 327, 241, 225, 209,  
[193, 161, 122]  
" of Power on Western Railroads 343  
Analysis of Water... 132  
Anthracite Coal Burning Locomotives 795, 423,  
[411, 347]  
Atlantic and Pacific Railroad... 541, 304  
" St. Lawrence Railroad... 591  
" Mississippi... 601  
" North Carolina... 728  
Atlanta and La Grange Railroad... 371  
American Securities... 723, 266, 232  
" Geographical Society... 46  
" and European Securities... 694, 33  
" Debt abroad... 262  
" Railroads, N. Y. Press on... 371  
" Railroad Iron... 486  
" Railroads, Schuyler Fraud... 636  
Americanism of Railroad Journal... 195  
Allegheny Valley Railroad... 97  
Axles, Railway... 372, 317, 314, 292, 202, 105, 61  
Alexandria, Loudoun and Hampshire Rail-  
road... 554, 301  
Agencies in New York, Western Railroads 451  
Alexandria and Gordonsville Railroad... 526  
Accidents, Railroad and Steamboat... 603, 237  
" on English Railroads... 435  
Air Lines of Railroad... 138  
Air Vessels of Locomotive Pumps... 117  
Akron Branch Railroad... 329  
Alton, Progress of... 100  
Andreocoggin and Kennebec Railroad... 744, 458  
Albuquerque Route to the Pacific... 341  
Annual Register of Polytechnic Institute... 614  
Aurora Extension Railroad... 450  
Austrian Railroad Concessions... 776
- B**
- Baltimore and Ohio Railroad... 803, 774, 730, 728,  
[700, 664, 600, 520, 476, 453, 383, 257, 226, 219,  
170, 25]  
Baltimore, Railroad Convention in... 325  
Bank Returns... 520  
" Comparative Condition of... 324  
Black River and Utica Railroad... 615, 523, 141  
Branch Roads and guarantees... 446  
Belleville and Indiana Railroad... 829, 453,  
[428, 294, 46]  
Belleville and Illinoistown Railroad... 829, 597, 78  
" and Murphersboro' Railroad... 268  
Belvidere, Delaware Railroad... 489  
Benton's Attack on Emory... 454  
Breakage of Railroad Axles... 202  
Bigler's (Gov.) Doings at Erie... 113  
Bridges, Improvement in... 94  
" Railroad... 550  
" Iron... 779  
Bridge over St. Lawrence... 372  
British Railways, Rolling Stock of... 283, 77  
" Provinces, Treaty with the... 507  
Bonds of Harlem Railroad... 279  
Boston and Providence Railroad... 267, 61  
" and Lowell Railroad... 728, 109  
" and Worcester Railroad... 466  
" and New York Central Railroad 622, 527  
" Concord and Montreal Railroad... 541  
" and Maine Railroad... 504  
" and New York, Commerce of... 138  
" Finances of... 828  
Brooklyn City Railroad Company... 429, 250  
Buffalo and New York City Railroad... 717, 378,  
[362, 317, 60]
- Buffalo, Corning, and N. Y. Railroad... 203  
" and Brantford Railroad... 414, 360  
" and Cincinnati Routes Difficulty... 421  
" Trade of... 107  
" and State Line Railroad... 445  
" Value of Estate in... 473, 461  
" Car Co... 812  
Billion, Deposits of... 136  
Blue Ridge Railroad... 582, 483, 198, 75  
Brunswick and Florida Railroad... 420  
Business of the Canals... 568  
Bytown and Prescott Railroad... 542
- C**
- Canals of New York... 828, 764, 697, 590, 565, 396,  
[251, 234, 187, 101, 23]  
California, State Finances of... 742, 637  
" Gold Products of... 429, 89  
Canandaigua and Niagara Falls Railroad... 439, 89  
Carriage Building in Madison, Ia... 109  
" Wheels, Washburne Patent... 117  
" Ventilation... 365, 535, 516, 506, 470,  
[439, 413, 376]  
Canada Railways, Freight on... 201  
Caro and Fulton Railroad... 773, 373  
Crawfordsville, Frankfort and Ft. Wayne  
Railroad... 558, 428  
Catawissa Railroad... 455  
Charleston and Savannah Railroad... 550, 509, 458  
Charlotte and South Carolina Railroad... 365, 141  
Cannelton and Jasper Railroad... 460  
Chattanooga and Cleveland Railroad... 495  
Chartiers Turntables... 504  
Chartiers Valley Railroad... 603  
Cast Iron, Effects of Successive Heating on 615  
Charges, Increase of on New England  
Railroads... 776  
Cleveland and Medina Railroad... 87  
" Zanesville and Cincinnati Rail-  
road... 373, 92  
" and Pittsburg Railroad... 779, 712  
" [600, 521, 382, 100]  
" Railroad, Iron received at... 126  
" and New York City Railroad... 158,  
[146]  
" and Toledo Railroad... 583, 524, 393,  
[200]  
" Columbus and Cincinnati Rail-  
road... 813, 744, 714, 231  
" Valuation of... 296  
" and St. Louis Railroad... 550, 301, 268  
" Philadelphia and Erie Railroad... 323  
" and Mahoning Railroad... 509  
" Painesville and Ashtabula Rail-  
road... 744, 507  
" Locomotives... 589  
" Coal Trade of... 604  
Census of 1850, Facts of the... 179  
Central Route to the Pacific... 341  
" Military Tract Railroad... 780, 455  
Chesapeake and Ohio Canal... 373  
" and Delaware Canal... 439  
Cement for Masonry... 400  
Chemung Railroad... 591  
Cincinnati, Wilmington and Zanesville Rail-  
road... 493  
" and Chicago Railroad... 700, 663,  
[575, 46]  
" and Aberdeen do... 77  
" Logansport and Chicago Railroad... 827, 611, 383, 93  
" Union and Ft. Wayne Railroad... 205  
" Hamilton and Dayton do... 106  
" [713, 534, 363, 141, 140]  
" and Marietta Railroad... 731, 668, 563,  
[551, 109]  
" Peru and Chicago Railroad... 293  
" Harrison and Indianapolis Rail-  
road... 527  
" Growth of... 461  
Chicago, and Aurora Railroad... 595, 533
- " and Rock Island Railroad... 828, 712,  
[648, 596]  
" Locomotive Works... 779  
" and St. Charles Railroad... 596, 423  
" and Union do... 373  
" and Mississippi do... 604, 597,  
[510, 497, 455, 205, 184, 41]  
" and Milwaukee Railroad... 598, 268  
" Exports of... 829  
Clinton Line Railroad... 382, 327  
Chilled Slip Tyres... 166, 118, 77  
" Boxes for Axles... 167  
Commerce, Effects of European War on... 263  
" of New York Canals... 23  
" and Railroads of Cuba... 603  
Commercial Policy of Pennsylvania... 97, 17  
" Position of New York... 314  
Convention, Southern Commercial... 267  
" of Railroad Companies... 768, 693,  
[663, 654, 605, 534, 466]  
Coal Burning Locomotives... 759  
" Fields of United States... 604  
" Trade of Cleveland... 604  
" Trade, the... 458  
" Trade of Schuylkill... 140  
" Fields of Kentucky... 12  
" Railroads to N. York... 613, 398, 381, 346  
Columbus and Xenia Railroad... 713, 91, 77, 29  
" and Marietta Railroad... 534  
" Piqua and Indiana Railroad... 452  
" and Shelby Railroad... 655  
Columbia and Hamburg Railroad... 554, 510  
" Railroad... 141  
Completion of Western Railroads... 58  
Concentration of power on New England  
Railroads... 102  
Cost of Railroads... 123  
Construction Act, of Railroads... 226, 129  
Corrugated Boiler Iron... 133  
College, Engineers' and Mechanics'... 217  
County Subscriptions to Railroads in Tenn... 247  
Coinage of United States... 745, 505, 290, 231  
Consolidation of Railroads... 318, 295, 266  
Connecticut, Railroad affairs in... 259, 267  
Covington and Lexington Railroad... 647, 372  
" and Ohio Railroad... 427, 379  
Copper from Lake Superior... 247, 109  
" in S. W. Virginia... 551  
Commission Agencies for Mach'y... 394  
Contract, Working of Railroads by... 630, 422  
Cochecho Railroad... 493  
Congressional Legislative Summary... 510  
Connecticut and Passumpsic Railroad... 763, 542  
Concord, (N. H.) Railroad... 619, 563  
Cotton, Production of... 564  
Compound Rail... 575  
Cross ties, Improved... 603  
Corn Crop of United States... 632  
Cuba, Commerce of Railroads in... 603  
Cumberland Coal and Iron Co... 407, 278  
Curves on Railroad Tracks... 418  
Crystal Palace... 454, 204  
Cylinder, proportions of... 651
- D**
- Dayton and Cincinnati Railroad... 262  
" and Michigan... 309  
Dauphin and Susquehanna... 759, 482, 87  
Draws for Railroads... 258  
Delaware and Hudson Canal Co... 200  
" Lackawanna and Western Rail-  
road... 386  
Detroit, Growth of... 205  
Debt of America Abroad... 202  
Deposits at U. S. Mint... 426, 281  
Debt of United States... 461, 297  
" of European Powers... 827  
Denny's Divided Axle... 317  
Deepening Rivers... 605  
Des Moines Navigation and Railroad Co... 628  
Distribution of Railroad Capital... 315  
" of Wealth, Effects of Railroads... 322
- Dividends paid by Massachusetts Railroads 42  
Dividends for Current half year... 793  
Disposition of Grades... 463  
Dilatation of Cast Iron... 615  
Dorchester and Pittsburg Railroad... 71  
" and Milton Br... 791  
Domain, Extent of U. S... 295  
Duties on Railroad Iron... 481, 450, 353, 321, 249,  
[137, 121]  
Dust in Railroad cars... 429
- E**
- East Tenn. and Virginia Railroad... 138  
" and Georgia... 189  
Evansville and Crawfordsville... 633, 628, 87  
" Indianapolis and Cleveland Rail-  
road... 414, 349, 174, 173, 152  
" and Illinois Railroad... 776  
England, National Debt of... 230  
Engagement of Erie Canal... 704, 299  
Excavator, New... 181  
Eastern Railroad Co... 749, 468  
Earnings, why applied to Construction 123  
[453]  
Easton, Prospects of... 581  
Eaton and Hamilton Railroad... 648  
Edgefield and Kentucky... 268  
Express Locomotives... 340  
Elevated Railroad for Streets... 403, 366, 348  
Erie, Affairs at... 133, 113, 94, 74, 49  
" Canal... 590, 396, 29  
Equipment of Railroads... 289  
English Railways... 695, 679, 435, 388, 910, 130  
" Preferred Stocks... 514  
Emigration from Great Britain... 205  
Engineers' and Mechanics' College... 217  
" Field Book for... 289  
Engineers Vt. Central Railroad... 670  
Engineering, Institutions for... 583  
" and Mathematical Instruments,  
[648, 604]  
" Profession, the... 524  
" History of Erie Railroad... 593  
Economy of Railroads... 241, 225, 209, 198  
Exploring Party of Lieutenant Whipple... 200  
Employees, number of on British Railroads,  
[299]  
" on Railroads... 575  
Exploration of Col. Fremont... 402  
Exports from New York, for 1853-4... 426, 425  
Europe, the War in... 230  
Excursion to Rock Island... 393  
Equation of Grades... 557, 533, 509, 474, 590
- F**
- Fall River Railroad... 788, 62  
Franklin Canal Railroad... 292, 218, 110, 90  
" and Warren Railroad... 591, 317  
Fare on Virginia Railroads... 399  
Fast Railroad, A... 477  
Fraud, Security from... 574  
Fraudulent issue of Stock... 700, 759  
French Railroads, Management of... 23  
Freight, Tariff of N. Y. & E. Railroad... 154  
" of Balt. & O. Railroad... 170  
" on Canadian Railroads... 201  
" Engines on N. Y. & E. Railroad... 349  
" large load for... 582  
Fremont's (Col.) Expedition... 402  
Flemington Railroad... 489  
Finances of Pennsylvania... 52  
" of Balt. & O. Railroad... 219  
" of Philadelphia... 455  
" of Texas... 425  
" of Virginia... 804, 780  
" of Indiana... 793  
" of United States... 780  
" of Louisville... 353  
Fitchburg (Mass.) Railroad... 619, 267, 89  
Fire Engine, Steam... 554  
Friction of Steam Engines... 74  
Field Book for Engineers... 289  
Fictitious Capital in Railroads... 697, 330

5125

2133

Transportation

Library

TF

R16

V27

## INDEX.

- A**
- Alabama and Tennessee Railroad...789, 605,  
[622, 404, 101]  
" and Florida Railroad...829, 397  
" and Mississippi Railroad...491  
" Railroads in...764  
" State, Finances of...547  
" Machine Works in...121  
Albany and Northern Railroad...543  
" Price of Wheat at...568  
Arkansas, Finances of...773  
" Railroads in...349  
Adaptation of Locomotives 327, 241, 225, 209,  
[193, 161, 122]  
" of Power on Western Railroads 343  
Analysis of Water...132  
Anthracite Coal Burning Locomotives 795, 423,  
[411, 347]  
Atlantic and Pacific Railroad...541, 304  
" St. Lawrence Railroad...591  
" Mississippi...601  
" North Carolina...728  
Atlanta and La Grange Railroad...371  
American Securities...723, 266, 232  
" Geographical Society...46  
" and European Securities...694, 33  
" Debt abroad...262  
" Railroads, N. Y. Press on...371  
" Railroad Iron...486  
" Railroads, Schuyler Fraud...636  
Americanism of Railroad Journal...97  
Allegheny Valley Railroad...165  
Axles, Railway...372, 317, 314, 292, 202, 105, 61  
Alexandria, Loudoun and Hampshire Rail-  
road...554, 301  
Agencies in New York, Western Railroads 451  
Alexandria and Gordonsville Railroad...526  
Accidents, Railroad and Steamboat...603, 237  
" on English Railroads...435  
Air Lines of Railroad...138  
Air Vessels of Locomotive Pumps...117  
Akron Branch Railroad...329  
Alton, Progress of...100  
Andreocoggin and Kennebec Railroad 744, 458  
Albuquerque Route to the Pacific...341  
Annual Register of Polytechnic Institute...614  
Aurora Extension Railroad...450  
Austrian Railroad Concessions...776
- B**
- Baltimore and Ohio Railroad 803, 774, 730, 728,  
[700, 664, 600, 520, 476, 453, 383, 257, 226, 219,  
170, 25]  
Baltimore, Railroad Convention in...325  
Bank Returns...520  
" Comparative Condition of...324  
Black River and Utica Railroad...615, 523, 141  
Branch Roads and guarantees...446  
Belleville and Indiana Railroad...829, 453,  
[428, 294, 46]  
Belleville and Illinoistown Railroad 829, 597, 78  
" and Murphersboro' Railroad...268  
Belvidere, Delaware Railroad...489  
Benton's Attack on Emory...454  
Breakage of Railroad Axles...202  
Bigler's (Gov.) Doings at Erie...113  
Bridges, Improvement in...94  
" Railroad...650  
" Iron...779  
Bridge over St. Lawrence...372  
British Railways, Rolling Stock of...283, 77  
" Provinces, Treaty with the...507  
Bonds of Harlem Railroad...279  
Boston and Providence Railroad...267, 61  
" and Lowell Railroad...728, 109  
" and Worcester Railroad...466  
" and New York Central Railroad 622, 527  
" Concord and Montreal Railroad...541  
" and Maine Railroad...604  
" and New York, Commerce of...158  
" Finances of...628  
Brooklyn City Railroad Company...429, 250  
Buffalo and New York City Railroad 717, 378,  
[362, 317, 60]
- Buffalo, Corning, and N. Y. Railroad...203  
" and Brantford Railroad...414, 360  
" and Cincinnati Routes Difficulty...421  
" Trade of...107  
" and State Line Railroad...445  
" Value of Estate in...473, 461  
" Car Co...812  
Billion, Deposits of...136  
Blue Ridge Railroad...582, 483, 198, 75  
Brunswick and Florida Railroad...420  
Business of the Canals...568  
Bytown and Prescott Railroad...642
- C**
- Canals of New York 828, 764, 697, 590, 565, 396,  
[251, 234, 187, 101, 23]  
California, State Finances of...742, 637  
" Gold Products of...742, 637  
Canandaigua and Niagara Falls Railroad  
[439, 89]  
Carriage Building in Madison, Ia...109  
" Wheels, Washburne Patent...117  
" Ventilation...365, 535, 516, 506, 470,  
[439, 413, 376]  
Canada Railways, Freight on...201  
Caro and Fulton Railroad...773, 373  
Crawfordsville, Frankfort and Ft. Wayne  
Railroad...558, 428  
Catawissa Railroad...455  
Charleston and Savannah Railroad 550, 509, 458  
Charlotte and South Carolina Railroad 365, 141  
Cannelton and Jasper Railroad...460  
Chattanooga and Cleveland Railroad...495  
Chartiers Turntables...504  
Chartiers Valley Railroad...603  
Cast Iron, Effects of Successive Heating on 615  
Charges, Increase of on New England  
Railroads...776  
Cleveland and Medina Railroad...87  
" Zanesville and Cincinnati Rail-  
road...373, 92  
" and Pittsburg Railroad...779, 712  
[600, 521, 382, 100]  
" Railroad, Iron received at...126  
" and New York City Railroad...158,  
[146]  
" and Toledo Railroad...583, 524, 393,  
[200]  
" Columbus and Cincinnati Rail-  
road...813, 744, 714, 231  
" Valuation of...296  
" and St. Louis Railroad...550, 301, 268  
" Philadelphia and Erie Railroad...323  
" and Mahoning Railroad...509  
" Painesville and Ashtabula Rail-  
road...744, 507  
" Locomotives...589  
" Coal Trade of...604  
Census of 1850, Facts of the...179  
Central Route to the Pacific...341  
" Military Tract Railroad...780, 455  
Chesapeake and Ohio Canal...373  
" and Delaware Canal...439  
Cement for Masonry...400  
Chemung Railroad...591  
Cincinnati, Wilmington and Zanesville Rail-  
road...493  
" and Chicago Railroad...700, 663,  
[575, 46]  
" and Aberdeen do...77  
" Logansport and Chicago Railroad  
[827, 611, 338, 93]  
" Union and Ft. Wayne Railroad 205  
" Hamilton and Dayton do...106  
[713, 534, 363, 141, 140]  
" and Marietta Railroad 731, 668, 563,  
[551, 109]  
" Peru and Chicago Railroad...295  
" Harrison and Indianapolis Rail-  
road...627  
" Growth of...641  
Chicago, and Aurora Railroad...595, 533
- " and Rock Island Railroad...828, 712,  
[648, 596]  
" Locomotive Works...779  
" and St. Charles Railroad...596, 423  
" and Union do...373  
" and Mississippi do...604, 597,  
[510, 497, 455, 205, 184, 41]  
" and Milwaukee Railroad...598, 268  
" Exports of...829  
Clinton Line Railroad...382, 327  
Chilled Slip Tyres...166, 118, 77  
" Boxes for Axles...167  
Commerce, Effects of European War on...263  
" of New York Canals...23  
" and Railroads of Cuba...603  
Commercial Policy of Pennsylvania...97, 17  
" Position of New York...314  
Convention, Southern Commercial...267  
" of Railroad Companies...768, 693,  
[663, 654, 605, 534, 466]  
Coal Burning Locomotives...759  
" Fields of United States...604  
" Trade of Cleveland...604  
" Trade, the...458  
" Trade of Schuylkill...140  
" Fields of Kentucky...12  
" Railroads to N. York...613, 398, 381, 346  
Columbus and Xenia Railroad...713, 91, 77, 29  
" and Marietta Railroad...534  
" Piqua and Indiana Railroad...452  
" and Shelby Railroad...655  
Columbia and Hamburg Railroad...554, 510  
" Railroad...141  
Completion of Western Railroads...58  
Concentration of power on New England  
Railroads...102  
Cost of Railroads...123  
Construction Act, of Railroads...226, 129  
Corrugated Boiler Iron...133  
College, Engineers' and Mechanics'...217  
County Subscriptions to Railroads in Tenn...247  
Coinage of United States...748, 505, 290, 231  
Consolidation of Railroads...318, 295, 266  
Connecticut, Railroad affairs in...259, 267  
Covington and Lexington Railroad...647, 372  
" and Ohio Railroad...427, 379  
Copper from Lake Superior...247, 109  
" in S. W. Virginia...551  
Commission Agencies for Mach'y...394  
Contract, Working of Railroads by...630, 422  
Cochecho Railroad...493  
Congressional Legislative Summary...510  
Connecticut and Passumpsic Railroad 763, 542  
Concord, (N. H.) Railroad...619, 563  
Cotton, Production of...564  
Compound Rail...575  
Cross ties, Improved...603  
Corn Crop of United States...632  
Cuba, Commerce of Railroads in...603  
Cumberland Coal and Iron Co...407, 278  
Curves on Railroad Tracks...418  
Crystal Palace...454, 204  
Cylinder, proportions of...651
- D**
- Dayton and Cincinnati Railroad...262  
" and Michigan...309  
Dauphin and Susquehanna...759, 482, 87  
Draws for Railroads...258  
Delaware and Hudson Canal Co...200  
" Lackawanna and Western Rail-  
road...386  
Detroit, Growth of...205  
Debt of America Abroad...202  
Deposits at U. S. Mint...426, 281  
Debt of United States...461, 297  
" of European Powers...827  
Denny's Divided Axle...317  
Deepening Rivers...605  
Des Moines Navigation and Railroad Co...628  
Distribution of Railroad Capital...315  
" of Wealth, Effects of Railroads  
on...322
- Dividends paid by Massachusetts Railroads 42  
Dividends for Current half year...793  
Disposition of Grades...463  
Dilatation of Cast Iron...615  
Dorchester and Pittsburg Railroad...71  
" and Milton Br...791  
Domain, Extent of U. S...295  
Duties on Railroad Iron 481, 450, 353, 321, 249,  
[137, 121]  
Dust in Railroad cars...428
- E**
- East Tenn. and Virginia Railroad...138  
" and Georgia...189  
Evansville and Crawfordsville...633, 628, 87  
" Indianapolis and Cleveland Rail-  
road...414, 349, 174, 173, 152  
" and Illinois Railroad...776  
England, National Debt of...230  
Engagement of Erie Canal...704, 299  
Excavator, New...181  
Eastern Railroad Co...749, 468  
Earnings, why applied to Construction 123  
[453]  
Easton, Prospects of...581  
Eaton and Hamilton Railroad...648  
Edgefield and Kentucky...268  
Express Locomotives...340  
Elevated Railroad for Streets...403, 366, 348  
Erie, Affairs at...133, 113, 94, 74, 49  
" Canal...590, 396, 29  
Equipment of Railroads...289  
English Railways...605, 679, 435, 388, 910, 130  
" Preferred Stocks...514  
Emigration from Great Britain...205  
Engineers' and Mechanics' College...217  
" Field Book for...289  
Engineers Vt. Central Railroad...670  
Engineering, Institutions for...583  
" and Mathematical Instruments,  
[648, 604]  
" Profession, the...524  
" History of Erie Railroad...593  
Economy of Railroads...241, 225, 209, 198  
Exploring Party of Lieutenant Whipple...200  
Employees, number of on British Railroads,  
[299]  
" on Railroads...575  
Exploration of Col. Fremont...402  
Exports from New York, for 1853-4...426, 425  
Europe, the War in...230  
Excursion to Rock Island...393  
Equation of Grades...557, 533, 509, 474, 590
- F**
- Fall River Railroad...788, 62  
Franklin Canal Railroad...292, 218, 110, 90  
" and Warren Railroad...591, 317  
Fare on Virginia Railroads...399  
Fast Railroad, A...477  
Fraud, Security from...574  
Fraudulent issue of Stock...700, 759  
French Railroads, Management of...23  
Freight, Tariff of N. Y. & E. Railroad...154  
" of Balt. & O. Railroad...170  
" on Canadian Railroads...201  
" Engines on N. Y. & E. Railroad...349  
" large load for...582  
Fremont's (Col.) Expedition...402  
Flemington Railroad...489  
Finances of Pennsylvania...52  
" of Balt. & O. Railroad...219  
" of Philadelphia...455  
" of Texas...425  
" of Virginia...804, 780  
" of Indiana...793  
" of United States...780  
" of Louisville...353  
Fitchburg (Mass.) Railroad...619, 267, 89  
Fire Engine, Steam...554  
Friction of Steam Engines...74  
Field Book for Engineers...289  
Fictitious Capital in Railroads...697, 330



# INDEX TO VOLUME XXVII.

For River, Improvement of.....	459
" Valley Railroad.....	797
Fort Wayne & Chicago Railroad.....	826, 820, 413
Forging, heavy Locomotive.....	459
Forging plugs to Boilers.....	77
Funded Debt of U. S.....	177
" of Philadelphia.....	742
Flushing Railroad.....	410
Fulton Car Works.....	649
<b>G</b>	
Gauge of Railroads.....	401
" Break of.....	91
" Effect of, on Locomotives.....	151
" Question settled, at Erie.....	169
" Uniformity of.....	606
Grades on Railroads.....	288, 50
" Economical Working of.....	67
" Locomotives on.....	88
" and Stationary Engines on.....	323, 290
" Disposition of.....	452
" Working of Descending.....	577
Grand Trunk Railroad.....	779, 775, 705, 732, 541,
[409, 488, 454, 453, 412, 382, 109]	
" Rapids & Indiana Railroad.....	445, 413
Galena & Chicago Railroad, 604, 595, 585, 494	
[248]	
Galveston & Red River Railroad.....	491
Gallipolis, Jackson, and Chillicothe Railroad	
[604, 499]	
Georgia Railroad.....	690, 810
" Railroads in.....	18
" Central Railroad.....	822, 797, 27
General Railroad Law of Ohio.....	709, 140
" of New York.....	741
" of New Hampshire.....	661
" Government, Grants of land by the,	
[161, 94]	
Genesee & Ontario Railroad.....	442
" Valley Railroad.....	649
Great Western Railroad, 541, 453, 412, 375,	
[105, 28]	
" Britain, Emigrant on from.....	205
" Railway Statistics of Rolling	
[Stock in, 263]	
" Railroads in.....	716, 581, 290
Greenville & Columbia Railroad.....	598, 626
Groy, Hon. B. F. of Ky.....	460
Girard and Mobile Railroad.....	469, 427, 174
Gold Movements of the World, the.....	518
" Discovery of.....	34
" Deposit of.....	36
" Shipment of from California.....	742, 637
Gov. Williamson Locomotive.....	230
<b>H</b>	
Hartford & New Haven Railroad.....	615
" Providence & Fishkill Railroad, 772,	
[714]	
Hampson, John, Esq.....	411
Harlem Railroad, 532, 529, 520, 471, 441, 355,	
[279]	
Hannibal & St. Joseph's Railroad.....	797, 695,
[206]	
Henderson & Nashville Railroad, 796, 555, 295	
Hempfield Railroad.....	472
Healdine & Powell, Letter from.....	515
Highways, Steam Power on.....	571
" Improvements in.....	43
Housatonic Railroad.....	141
Hollow Axles.....	372, 314, 292
How Railroads make money source.....	465
Hudson River Railroad, 776, 721, 712, 674, 652,	
[648, 371]	
<b>I</b>	
Internal Improvement Law, Texas.....	173
" in Virginia.....	789, 725
" Communications in New York.....	358
Interior Railroads.....	365
Indebtedness of Railroads.....	602
Independence (Va.), Railroad.....	700
Increase of charges on New England Railroads,	
[776]	
Interest on Railroad Bonds.....	792
Illinois & Wisconsin Railroad.....	414
" River Railroad.....	438
" & Michigan Canal.....	633
" Railroads in.....	595, 139
" Central Railroad, 749, 635, 597, 482,	
[475, 383, 268, 215]	
Indiana, Finances of.....	793, 63
" Railroads in.....	521, 150
" & Illinois Central Railroad, 651, 537,	
[327]	
" Central Railroad.....	85
" & Tremont do.....	294
Indianapolis & Bellefontaine Railroad.....	84
" & Peru Railroad.....	922
" & Cincinnati Railroad.....	827, 744
[700, 684, 648, 599, 516, 468, 185, 83, 29]	
Institutions for Engineers.....	582
Iron, Effects of melting on.....	67
" Manufacture of Railroad in United States	
[281]	
" Bridges.....	770, 747, 717, 583, 298
" Relative strength of.....	413
" Foundries in Pittsburgh.....	521
" Production of.....	542
Improvement of Fox and Wisconsin Rivers, 459	
" of the Locomotive, 612, 679, 662,	
[538, 623, 506]	
" a Revolution of.....	563
" of Mobile River.....	607

Improved Cross-Ties.....	608
Iowa, Railroad in.....	659, 583
" Debt of.....	827
Income Bonds of N. Y. & E. Railroad.....	589
Imports into New York for 1853-4.....	669, 425
Industry of the United States.....	26
<b>J</b>	
Jacksonville and Carrollton Railroad.....	44
Jeffersonville Railroad.....	232
Journal, Past and Future of the Railroad.....	317
Junction Railroad.....	272
<b>K</b>	
Kentucky Coal Fields.....	12
" State Finances of.....	117, 53
" Statistics of.....	158
" Locomotive Works.....	375
" Union Railroad Co.....	382
" & Tennessee Railroad.....	427
" and her Railroads.....	490
Kennebec & Portland do.....	713, 700, 575
Keokuk, Mt. Pleasant & Muscatine Railroad,	
[635]	
King's Mountain Railroad.....	705
Knoxville & Ky. do.....	306, 158
<b>L</b>	
Lakes, Loss of Life and Property on.....	75
" Ports, Trade of for 1853.....	76
" Erie, Wabash and St. Louis Railroads,	
[655, 163, 81]	
" Superior Copper Mines.....	247
" Shore Railroads.....	299, 292
" Land Grants to Railroads, 622, 412, 404, 151, 94	
Lackawanna Coal Regions.....	213
La Crosse and Milwaukee Railroad, 530, 429,	
[282]	
Lancaster's Car Ventilator.....	356
Latrobe and Knight on Equation of Grades,	
[474, 390]	
Lancaster Locomotive Works.....	492
Legislation, (Railroad) in Pu.....	145
Lehigh Coal and Navigation Co.....	347
Lexington and Danville Railroad.....	563, 427
" and B. & Sandy do.....	605, 439
" and Frankfort do.....	491
" and Ohio do.....	705
Lebanon Valley do.....	558
Little Miami do.....	708, 91, 23
" Rock and Ft. Smith do.....	774, 428
Liberal Ideas, Progress of.....	130
Loan of N. Y. & E. Railroad Co.....	792, 697
Logansport and Nor. Indiana Railroad.....	426
[263]	
Loss on the Lakes.....	75
London and Pt. Stanley Railroad.....	132
Long Island do.....	328
Lowell Machine Shop.....	681
" Locomotives.....	456, 373
Louisville and Frankfort Railroad.....	495
" Financial State of.....	358
" and Nashville Railroad.....	572, 486
[423, 357]	
" and Covington Railroad.....	34
" and Sandusky do.....	158
Louisiana, Finances of.....	116
" Sugar interest in.....	153
" Railroad Laws of.....	786
Locomotive Engines.....	698
" Boilers.....	357
" Waste Heat of.....	18
" Expansion of.....	76
" Building at St. Louis.....	150
" at Paterson.....	2
" at Milwaukee.....	26
" at Dayton, Ohio.....	78
" at the West.....	101
" Prospects of.....	308
" Adaptation of.....	327, 241, 225, 290,
[193, 151, 122]	
" Proportion of.....	364, 154
" for steep Inclines.....	174
" for New Jersey Railroad.....	202
" Anthracite Coal Burning.....	795
[423, 411, 347]	
" Freight of, on N. Y. & E. Railroad,	
[349]	
" Price of.....	360
" Forgings.....	450
" Improvement of the.....	612, 579, 562,
[538, 523, 506]	
Low Price of State Stocks.....	764
Lubrication.....	750
Lyons (Iowa) Central Railroad.....	267
<b>M</b>	
Madison and Indianapolis Railroad.....	634, 458,
[92, 26]	
" and Swan Lake do.....	543
Maryland, State Finances of.....	53
" Northern Central Railroad.....	345
Massachusetts, Finances of.....	53
" Railroads, Statistics of.....	230
" Dividends paid by.....	717, 428
Macon and Western Railroad.....	648, 62
McConnell's Locomotive.....	66
Maine, Finances of.....	117
" Railroads in.....	295, 231, 230, 203
Marquette (Ow.) on Pennsylvania Policy.....	118
Marquette and Cincinnati Railroad.....	142
Mad River and Lake Erie do.....	383, 283
Mayville and Lexington do.....	391
Massachusetts Gap do.....	393
Machinery Commission Agencies.....	394

Mania, the Railroad.....	573
Machinists' Tools.....	535
Manchester and Lawrence (N. H.) Railroad,	
[620]	
Management of English Railroads.....	679
Mason (Ky.) Railroad Bonds.....	765, 700
Metropolitan Railroad Co.....	552
Meeting of the N. Y. & N. H. Railroad Co.,	
[733]	
Memphis and St. Louis Railroad.....	215
" and Charleston do.....	791, 649, 537,
[503, 307]	
" and Ohio do.....	811, 377
" Clarksville and Louisville Railroad,	
[599]	
" and Little Rock Railroad.....	605
Milwaukee Locomotive Factory in.....	28
" and Mississippi Railroad.....	712, 647,
[531, 526, 521, 491, 375, 247, 82, 75]	
" and Watertown Railroad.....	531, 413
" and her Railroads.....	530
" and Haurion Railroads.....	531
Michigan Central Railroad.....	744, 712, 697, 683,
[648, 600, 520, 486, 477, 460, 441, 137, 47]	
Michigan Southern and Northern Indiana Rail-	
road.....	744, 712, 664, 585, 531, 468, 383, 246, 69
Mint, United States.....	779, 412, 280, 231
Missouri, Railroads in.....	349, 139
Mississippi Railroad.....	154
" and Atlantic Railroad.....	597, 298,
[268, 212, 182, 165]	
" Central Railroad.....	728, 507, 226
" and Tennessee Railroad.....	622, 590, 317
" and Rock River Railroad.....	324
" Ouachita and Red River Railroad,	
[326]	
Montreal, Air Line Railroad to.....	154
" Trade of.....	647
Mobile and Ohio Railroad.....	417, 308, 204
" and New Orleans Railroad.....	369
" and Girard Railroad.....	605, 497, 400,
[427, 174]	
" River, Improvements of.....	567
" Harbor.....	588
Mortgage Bonds of Harlem Railroad.....	279
Morris and Essex Railroad.....	487, 412
Money, how made scarce by Railroads.....	465
Montgomery and West Point Railroad.....	493
Motive Power on Vt. Central Railroad.....	570
Muscatine Railroad.....	28
Municipal Bodies, Subscription to, Railroads by	
[146]	
" Improvements.....	522
<b>N</b>	
Nashville and Cincinnati Railroad.....	75
" and North Western Railroad.....	826, 300
Naugatuck Railroad.....	190, 158
National Revenues and Commercial Ag-	
gregation.....	540
New York and Erie Railroad, 812, 792, 760, 728,	
700, 697, 682, 657, 648, 629, 625, 620, 593, 586,	
598, 561, 545, 534, 397, 308, 226, 168, 154, 55,	
[34, 26, 19, 3]	
New York Central Railroad, 804, 823, 817, 744,	
[664, 585, 490, 476, 374, 330, 146, 124, 26]	
" and New Haven Railroad, 807, 749,	
733, 675, 649, 616, 609, 601, 459, 441,	
438, 433, 429, 405, 37.....	
New York City, Valuation of.....	262
" Finances of.....	100
" Locomotive Works.....	268, 131
" Streets, Railroads in.....	172
" City, Increase of.....	267
" Commercial Position of.....	314
" Effect of Railroads on.....	314
" Coal Railroads to.....	398, 346
" City, Internal communications in	
[549, 358]	
" Press on American Railroads.....	371
" Physical Geography of.....	442
" and Boston Railroad.....	529, 527
" as a Manufacturing City.....	613
" General Railroad Law of.....	641
" Wrought Iron Chain Works.....	722
New Jersey, Finances of.....	54
" Railroad Company.....	372, 219, 174
" Locomotive Works.....	631, 566, 178
" Central Railroad.....	398, 279
" Resources of.....	565
New England Railroads.....	110
" Railroad Investments in.....	87
" Railroads, Concentration of	
[102]	
" Working of Railroads in.....	153
New Orleans and Mobile Railroad.....	263
" Jackson, and Great Northern	
Railroad.....	791, 299, 258
" and Ohio Railroad.....	445
Newport and Louisville Branch Railroad.....	240
New Haven & New London Railroad.....	373, 335
" Hampshire, Northern Railroad of.....	372
" General Railroad Law of.....	681
" Railroads in.....	669
New Albany and Sandusky Railroad.....	422
" and Lake Mich. Railroad.....	428
" Railroad projects, Against.....	423
" Locomotives.....	429
" Brunswick, Railroads in.....	511
" Inventions.....	54
" London, Wit. and Palmer Railroad.....	793
Newburg and Syracuse Railroad.....	546
Night Cars between Philadelphia and Balti-	
more.....	183

Nova Scotia, Railroad in.....	471
Norwich and Worcester Railroad.....	263
North Missouri and Iowa Railroad.....	684, 269
" Carolina Railroad.....	549, 23
" and South Railroads.....	306, 231
" Eastern Railroad (S. C.).....	361
" Western Railroad (Va.).....	397, 573
" Carolina, Railroads in.....	671
" Alabama and Grand Junction Rail-	
road.....	588
" Western Railroad (Pa.).....	606
Northern Route of Pacific Railroad.....	584, 340
" Cross Railroad (Ill.).....	764, 559
" Climates, Railroad Depreciation in.....	398
<b>O</b>	
Orange and Alexandria Railroad.....	727, 622,
[429, 270]	
Ontario, Simcoe and Huron Railroad.....	496
Oswego, Trade of.....	100
" and Syracuse Railroad.....	269
Opening of Cleveland, Zanesville and Cincin-	
nati Railroad.....	373
Ogdensburg Railroad.....	609, 527, 498, 413,
[433, 429]	
" Clayton and Home Railroad.....	622
Opelika and Girard Railroad.....	601
Over Issue of Stock.....	724, 715, 503, 469, 441,
[433, 429]	
Ohio, General Railroad Law of.....	712, 709, 140
" Railroads in.....	131
" Public Works of.....	57
" City Property in.....	84
" Bridging of River.....	71
" Taxable Property in.....	26
" and Indiana Railroad.....	784, 536, 375, 83
" and Pennsylvania do.....	712, 684, 608, 583,
[585, 520, 455, 70]	
" and Mississippi do.....	609, 597, 595, 423,
[414, 373, 344, 225, 221, 167]	
" Central Railroad.....	748, 699, 692, 601,
[583, 401]	
" River, Tunnel under the.....	797
Old Colony and Fall River Railroad.....	788, 583
<b>P</b>	
Paterson, Locomotive Building at.....	2
Panama Railroad.....	779
Patent Law.....	342, 582
Pacific Railroad.....	712, 451, 385, 337, 316, 272,
[214, 186, 179, 148, 106, 44, 23, 6]	
" of Missouri.....	563, 71
" of Texas.....	828, 775, 743, 541
" Southern Convention on the 269	
" Northern Route to.....	504
Pennsylvania, Railroad Property unsafe in.....	1
" Commercial Policy of, 118, 97, 17	
" State Finances.....	62
" New Theory of Taxation in.....	65
" Railroad.....	700, 698, 648, 585, 582
[521, 473, 375, 290, 278, 226, 107, 103, 26]	
" Railroad Legislation in.....	146
" Public Works of 410, 267, 231, 129	
" Coal Company.....	542
Press, (N. Y.) on Railroads.....	371
Precious Metals, Production of the.....	437
Penalty for over Issue of Stock.....	511
Peoria and Hannibal Railroad.....	506, 268
" and Quakwa do.....	446
" and Bureau Valley Co.....	560
Philadelphia, Wilmington and Baltimore	
Railroad.....	700, 647, 69
Philadelphia, Finances of.....	466
" Germ. and Nor. Railroad.....	893
" and the Lakes.....	699
" Funded Debt of.....	742
Prizes to Engineers.....	70
Piles sunk by Pneumatic Pressure.....	276
Price of Locomotives.....	360
Pittsburg and Steubenville Railroad.....	429
" Iron Foundries in.....	521
Portland, Saco and Portsmouth Railroad.....	490
" Population of.....	77
Providence and Worcester Railroad.....	127, 41
Production of Iron.....	543
" of Precious Metals.....	437
Productiveness of American Railroads.....	637
Property, Rights of Individual.....	77
Progress of Liberal Ideas.....	120
Proportion of Locomotives.....	384, 154
Prospects of Locomotive Building.....	308
" of Grand Trunk Railroad.....	453, 322
Post Office Department, the.....	299
Postal System, the.....	463
Pontchartrain Railroad.....	371
Portsmouth, Against new Railroad.....	439
Polytechnic Institute, Report of the.....	614
Poor's (H. V.) Railway History.....	637
Pumps, Air Vessels of Locomotive.....	117
Public Works of Virginia.....	692, 116
" of Pennsylvania.....	410, 267, 231,
[129]	
" Lands of U. S.....	519, 247
" Sale of.....	230
Physical Geography of New York.....	442
<b>Q</b>	
Quebec Railroad, Iron brought by.....	88
" and Richmond Railroad.....	691
Quickest Route from London to Shanghai.....	440
<b>R</b>	
Racine, Janesville and Milwaukee Railroad.....	601

5125

Railroads and Gasoline Railroads.....779	Railroad and Washington Railroad.....194	Treaty with the British Provinces.....567	Agents, in reference to injuries sustained.....183
Railroads in the United States.....8	"    and Burlington do.....707, 228	Twin Creek Railroad.....382	from fellow agents.....183
in Georgia.....18	Railroad.....647	Trial of New Engines.....710, 366	Agents, extent of their authority to bind.....653, 457, 482
in the West.....672, 119	Rutland's Ventilator.....653, 277	Times, the Present.....630	Appraisements of Railroad property.....630
in Ohio.....181	Runners' on Railroads.....408, 289	Tonnage (Ship) of U. S.....413	
in Virginia.....133		"    Railroad and Canal.....121	<b>B</b>
in Missouri.....349, 138	<b>S</b>	Toledo and Indianapolis Railroad.....141, 120	Broadway Railroad Case.....28
in Illinois.....595, 189	Saugatuck Iron Works.....27	"    and Illinois Railroad.....162, 81	Bridging Rivers or navigable waters.....668
in Indiana.....521, 150	Savannah and Mobile Railroad.....29	Troy and Boston.....74	By-Laws of Corporations.....668
in Maine.....295, 231, 220, 203	Valley Railroad.....293	Topographical Drawing.....606	Belleville and Illinois Railroad Case.....108
in Brooklyn.....429, 250	Finances of.....764	Tunnel on Pennsylvania Railroad.....290	
in Massachusetts.....717, 260	Safety Valve Fastenings.....70	"    under Chicago River.....553	<b>C</b>
in Great Britain.....716, 581, 299	Scrap Iron, Forgings from.....77	"    under Ohio River.....707	Carelessness of Passengers.....348, 326
in Arkansas.....349	San Francisco, Debt of.....104		Carriers' Receipts.....348
in Connecticut.....389	State, Can Private Property be seized by the.....77	<b>U</b>	(Common), Limiting the authori-.....743
in Nova Scotia.....471	Finances.....116, 52	Uses of Railroads.....394	"    ( " ) Partnership between.....743
in New Brunswick.....511	Stocks, Low Price of.....764	Utica and Binghamton Railroad.....533, 531, 392	Caution, how far required of Railroad.....171
in Cincinnati.....541	Saratoga Railroad.....477	Uniformity of Gauge.....606	Companies.....171
in North Carolina.....571	and Washington Railroad.....637	United States, Railroads in.....8	Caution, how far required of Tunnelers.....580
in Iowa.....539, 583	St. Louis, Progress and Finances of.....267, 100, 78	"    Funded Debt of.....461, 297, 177	City Railroads.....419, 310, 171
in Cuba.....603	Locomotive Building at.....150	"    "    Mint.....779, 749, 412, 231	Contracting Railroad Grants.....213
in Texas.....665	"    and Western Railroad.....163	"    Public Lands of.....247	Contractors distinguished from Servants.....324
in New Hampshire.....669	"    and Iron Mountain " 730, 174, 167	"    Industry of.....290	Corporations, the Dissolution of.....93
in Vermont.....633	Position and Prospects of.....170	"    Manufacture of Railroad, Iron.....281	
in Alabama.....764	Memphis and N. O. Railroad.....501	"    Domain, Extent of.....285	<b>D</b>
Cost of.....123	Sale of Public Lands.....259	"    Coal Fields of.....604	Damages from loss of time.....151
in New York, Report on.....124	Sandusky and Louisville Railroad.....279	"    Corn Crop of.....632	"    without wrong.....326
Entering New York City.....549	Mansfield, and N. Y. Railroad.....301	"    Productiveness of Railroads.....637	"    in case of Death on Railroads.....359
Working of.....808, 147	Stationary and Loco. Power on Grades.....323, 290		"    of a Servant's fare paid by.....391, 292
Grants of Land to.....412, 404, 161, 94	Sault St. Marie Canal.....531, 434, 379, 343	<b>V</b>	Damages from Negligence.....474
Effects of, on New York City.....314	"    Cotton Mfg. at.....459	Value of Locomotives.....167	Docks, Outing off.....348, 183
"    of, in distributing Wealth.....372	St. Lawrence, Bridge over the.....372	Valuation of N. Y. City for 1854.....242	
Uses of.....394	Scale Works, Rochester.....510	Value of Railroad Securities.....466	<b>F</b>
American Iron for.....486	Sackett's Harbor and Saratoga Railroad.....763	"    of Estate in Buffalo.....473, 400	Fraudulent transfers of Stock.....575
and the Times.....573	Sacramento Valley Railroad.....631	Vermont and Mass. Railroad.....787, 118	Freight, when drawn for what is ostensibly.....348
Indebtedness of.....602	Securities, European and American.....659, 33	Central Railroad.....638, 616, 570, 564, 542	Forwarders, their rights of Action.....390
Productiveness of American.....637	"    American.....268	"    Railroads in.....683	
vs the Erie Canal.....697	"    Value of Railroad.....456	Ventilation of Cars.....535, 516, 508, 470, 439, 413	<b>G</b>
Fictitious Stock in.....697	"    Why so low.....681	Ventilator, Waterbury and Atwood's.....406	General Railroad Law of New York.....641
How they Spend Money.....765	Securities from Fraud.....574	Virginia Central Railroad.....460, 62	"    New Hampshire.....657
Sunday Trains on.....801	Steam Carriages on Common Roads.....571, 108	"    and Tenn. " 776, 664, 631, 569, 357	"    Ohio.....706
In Canada.....809	Hammers, Improvement in.....110	"    Improvements in.....725, 74	<b>I</b>
<b>Railroad Property unsafe in Pa.....1</b>	Boilers, Fusible Plugs for.....78	"    Public Works of.....599, 116	Infringement of Water rights by Railroad.....678
Machinery at the South, Manu-.....178	Engines, Friction of.....77	"    Railroads in.....133	Companies.....678
"    facture of.....178	Gauges, Testing of.....167	"    Convention.....789	Inhabitation, in reference to Railroad Com-.....183
Investments in New England.....87	Fire Engines.....554	"    Finances of.....804, 780	
Construction Accounts.....129	"    Boat Accidents.....603, 237	Vicksburg, Shreveport, and Texas Railroad.....823	<b>L</b>
Working of.....147	Staubenville and Indiana Railroad.....20	"    [118, 543, 455]	Lands adjoining Railroads.....618
Signals.....515, 148	Street Railroads in N. Y.....172	Watertown and Rome Railroad.....748, 744, 320,	Liability of Railroad Companies in respect.....412
to the Pacific.....375, 282, 186	Steeple Inclines, Locomotives for.....174	"    [118, 543, 455]	to those travelling by special contract.....412
Accidents.....227	Specie, Export from N. Y. of.....426	Washburne's Car Wheel Patent.....117	Liability of Railroad Companies in case of.....618
Iron, Manufacture of in U. S.....281	Self-adjusting Railroad Signal.....515	"    Supply of to Engines.....458	Passengers' Negligence.....618
Equipment.....289	Speed on Railroads.....551	Warsaw and Ft. Byron Railroad.....274	Liability of Railroad Companies in case of.....767
Capital, Distribution of.....315	Signals, Railroad.....576, 148	"    and Rockford.....507	Limitations in Railroad Charters.....724
Elevated Passenger.....405, 326, 348	Springfield, Mt. Vernon and Pittsburg Rail-.....268, 92	"    Valley Railroad.....511	Luggage not Merchandise.....246
Iron, Duty on.....451, 450, 353, 321,	Strike on N. Y. and Erie Railroad.....397	Waterbury's Car Ventilator.....439, 406	
[249, 137, 121]	Sinking Funds for Railroad Loans.....765, 700, 629,	Washington and Alexandria Railroad.....459	<b>M</b>
Depreciation in Northern Ch-.....398	Smith's (G. D.) Car Wheel.....723	Wheat, Prices of at Albany.....533	Measure of Damage respecting a Construc-.....608
"    mates.....398	Sinking Piles by Pneumatic Pressure.....274	West, Railroad Construction in the.....573, 167, 119	tion Contract.....608
Exhibits.....407	Slide Valves for Locomotives.....108	"    Affairs in the.....763	Misapplication of corporate Funds.....71
Intelligence.....408	Shipment of Gold from Cal.....637	Western Railroad of N. C.....217	Myers vs. the York and Cumberland.....608
Securities, Value of.....456	Stock, Fraudulent issues of.....779	"    of Mass.....530, 228, 61	
Mania, the.....513	Stonington Railroad.....669, 647	"    Cost and Productiveness.....218	<b>N</b>
Convention.....810, 768, 693, 683, 654, 538	Southern Route to the Pacific.....341	"    of the.....67	Nuisances.....28
Bridges.....550	Railroads.....141	"    Depreciation of Iron on.....67	
Loans, Sinking Fund for.....577	Commercial Convention.....259, 258	"    Adaptation of Power on.....343	Over-Issue of Stock, the consequence of.....769,
Management, Reform in.....692, 615	South Carolina Railroad.....100	"    Traffic on the.....647	724, 715, 602, 503, 457
History.....617	"    Finances of.....54	"    Companies, Convention.....608	Packed Parcels, the Freight of.....134
Accounts.....636	"    N. Eastern Railroad of.....261	"    of.....451	Passengers, their rights, when excluded.....326
Iron, New Method of Rolling.....710	"    Western Railroad.....553, 445, 615, 262, 87	"    and Central Railroad.....458	Patent rights, validity of using those of a.....748
Morals and Policy.....785, 777, 761,	"    Side.....301	"    Atlantic.....700, 514	Payment of Money into Court.....71
[763, 745, 737]	"    Shore (Mass.) ".....791	Wisconsin, Finances of.....116	Priority of Contract.....591
Couches.....765	"    Pass on Pacific Route.....340	Whipple's (Lieut.) Exploring Party.....290	
Laws of La.....786	"    West Br. to Pacific Railroad.....526	Wilmington and Manchester Railroad.....274	<b>R</b>
Bonds, Interest on.....792	Subscriptions to Railroads by Municipal Bodies.....148	Winchester and Alabama.....510	Railroads not Nuisances in Cities.....517
Earnings.....744, 712, 683, 664, 648,	Survey of Pacific Railroad.....148	Williamsport and Elmira.....552	Tickets, the effect of.....618
[635, 565, 541, 519, 511, 473, 453]	Sugar Interest in La.....153	Working of Railroads.....147	"    The Legal Location and Con-.....706
<b>Report of New York and Erie Railroad.....34, 19, 3</b>	Schuykill Coal Trade.....140	"    by Contract 808, 630, 422	"    Contracts, construed with refer-.....706
<b>Report on New York Railroads.....331, 124</b>	Sunbury and Erie Railroad 822, 639, 621, 373, 269	"    In New England.....155	ence to Terminus.....706
"    on New York Canals.....251, 234, 187	Susquehanna Railroad.....305	Workshop of Nor. Indiana Railroad.....591	Repeal of Railroad Charters.....69
"    on Lackawanna Coal Regions.....213	Supply of Water to Engines.....458	World, Gold Movements of the.....518	Rights of Way, the Incidents of.....724, 580
"    of Pacific Railroad Company.....214	Sussex and Warren Railroad.....786, 690		Rioters indictable, the Erie.....59
"    on Pennsylvania Railroad.....275	Syracuse and Binghamton Railroad.....673, 649	<b>Y</b>	
<b>Rights and Liabilities of Stock and Bond-.....818</b>	"    575, 391, 193, 42	York and Cumberland Railroad.....723	
holders in Railroads.....818	<b>T</b>		<b>S</b>
"    on Commerce and Navigation.....829	Taxation, New Theory of in Pa.....65		Stock Subscription to Railroad Companies 391,
"    of Susquehanna Railroad Company.....305	Taunton and New Bedford Railroad.....158		[14]
"    of Del. Lackawanna and W. Railroad.....386	Transportation and Cost of Western Rail-.....67		"    Jobbing, Decision concerning.....545
"    Company.....386	roads.....67		Subscription to Railroad Companies.....254, 245,
"    of New York Central Railroad Com-.....476	Traversing Screw Jack.....131		[172]
"    pany.....476	Trade, New Channels of.....186		Surgical Mal-Practice with reference to in-.....284, 48
"    of Blue Ridge Railroad Company.....483	"    of Montreal, Effects of Railroads on.....247		
"    of Cleveland and Toledo Railroad.....524	Track, Mode of Laying.....223		<b>T</b>
"    Company.....524	Fracks, Survey on Railroad.....418		Transit of Goods carried by Railroad,
"    of Indianapolis and Cincinnati Rail-.....500	Tables Turned, the.....373		when terminating.....742,
<b>Responsibilities of French Railroad Conduc-.....23</b>	Taunton Branch Railroad.....412		Travellers by Railroad, Misbehavior of.....
tors.....23	Traffic on Western Railroads.....647		
Reading Railroad.....649, 90, 24	Texas, Increase of Property in.....28		<b>W</b>
Representative Men.....76	Finances of.....54		Waiving a Stipulation, the effect of.....497
Red River, Improvements of the.....103	"    Debt of.....485		
Receipts of Railroad Iron at Cleveland.....121	"    Railroads in.....665		
Relative Strength of Iron.....412	Tennessee, Finances of.....53		
Revenue of United States for 1854.....422	Internal Improvements in.....173		
Reciprocity with the British Provinces.....507	Subscriptions to Railroads in.....247		
Resources of New Jersey.....564	Torre Haute and Richmond Railroad.....807, 601,		
Reform in Railroad Management.....692, 615	[539, 432, 427, 201]		
Richmond and Petersburg Railroad.....493			
"    and Danville Railroad.....714			
Rolling Stock on British Railroads.....265			
Rock Island, Excursion to.....393			
"    Bridge.....615, 675			
Rolling Iron, New Process of.....716, 640			

